Bang & Olufsen

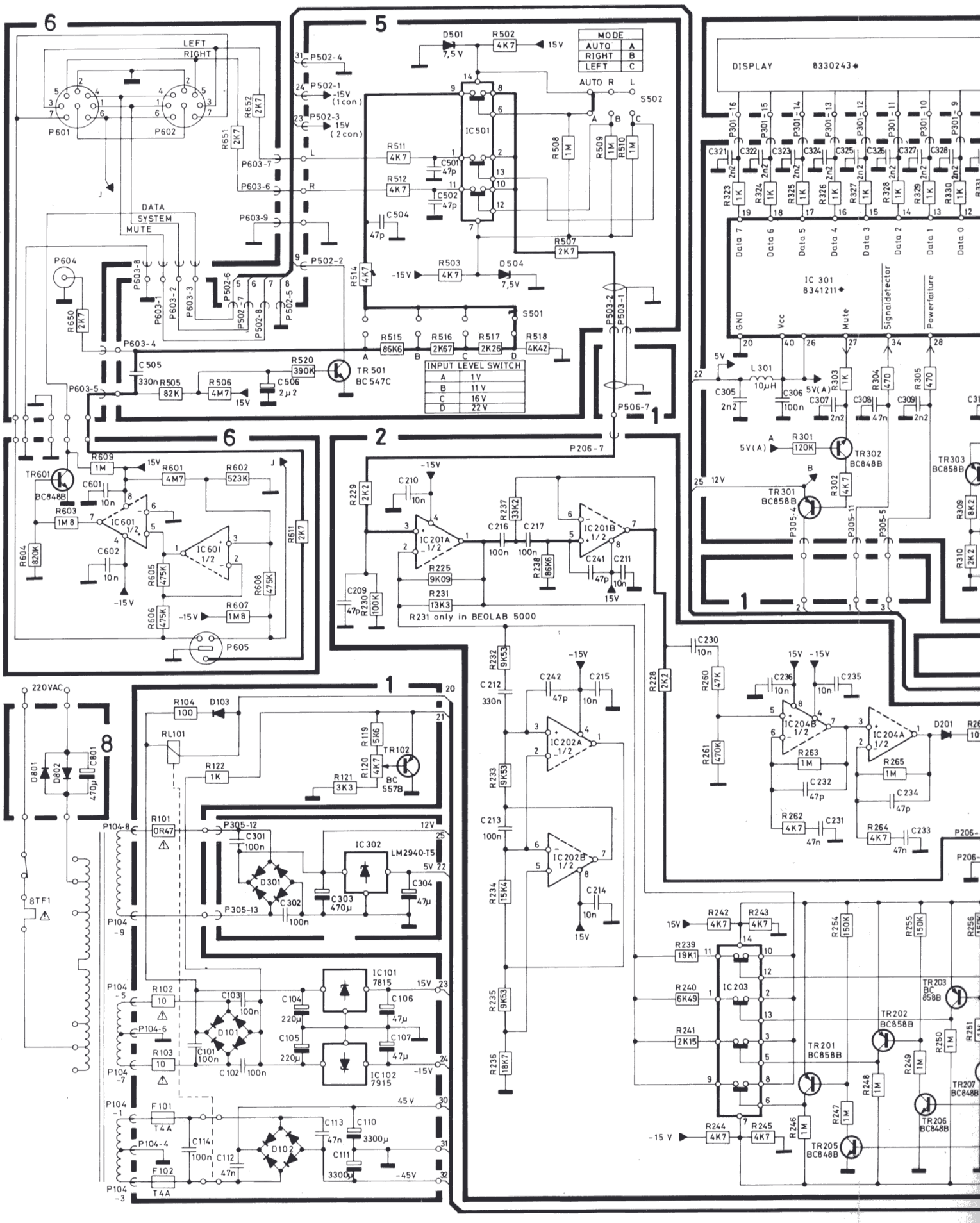
Beovox 3000
Beolab 3000
Beovox 5000
Beolab 5000

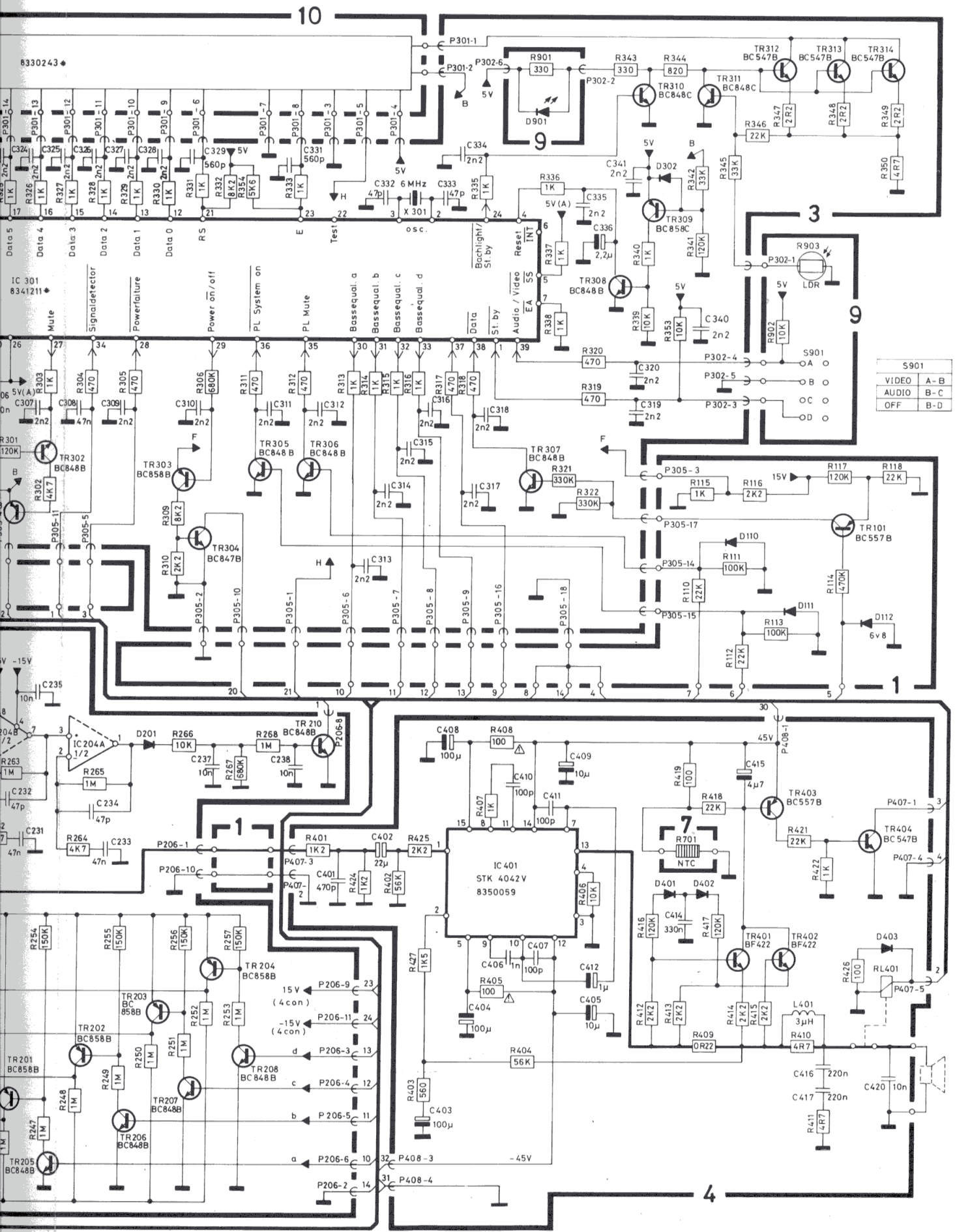
BEOVOX 5

+ Beolab Penta

SERVICE MANUAL

DIAGRAM


6
5
2
1
8
LEFT
RIGHT
P601
P602
R651 2K7
R652 2K7
P603-7
P603-6
P603-9
DATA
SYSTEM
MUTE
P604
R650 2K7
P603-8
P603-1
P603-2
P603-3
P603-4
P603-5
P502-6
P502-7
P502-8
P502-5
P502-2
P502-4
P502-1 -15V (1 con)
P502-3 15V (2 con)
C505 330n
R505 82K
R506 4M7
15V
C506 2µ2
R520 390K
TR 501 BC 547C
D501 7,5V
R502 4K7
15V
MODE
AUTO A
RIGHT B
LEFT C
AUTO R L
S502
IC501
R508 1M
R509 1M
R510 1M
R511 4K7
R512 4K7
C501 47p
C502 47p
C504 47p
R507 2K7
R503 4K7
-15V
D504 7,5V
R514 4K7
S501
R515 86K6
R516 2K67
R517 2K26
R518 4K42
INPUT LEVEL SWITCH
A 1V
B 11V
C 16V
D 22V
P503-2
P503-1
P506-7
R609 1M
TR601 BC848B
C601 10n
R601 4M7
R602 523K
R603 1M8
IC601 1/2
R604 820K
C602 10n
R605 475K
R606 475K
R607 1M8
R608 475K
R611 2K7
P605
P206-7
R229 2K2
C210 10n
IC201A 1/2
R237 33K2
C216 100n
C217 100n
IC201B 1/2
R225 9K09
R231 13K3
R238 86K6
C241 47p
C211 10n
C209 47n
R230 100K
R231 only in BEOLAB 5000
R232 9K53
C242 47p
C215 10n
IC202A 1/2
C212 330n
R233 9K53
C213 100n
IC202B 1/2
R234 15K4
C214 10n
R235 9K53
R236 18K7
R228 2K2
C230 10n
R260 47K
R261 470K
C236 10n
C235 10n
IC204B 1/2
IC204A 1/2
D201
R263 1M
C232 47p
R265 1M
C234 47p
R262 4K7
C231 47n
R264 4K7
C233 47n
DISPLAY 8330243*
P301-16
P301-15
P301-14
P301-13
P301-12
P301-11
P301-10
P301-9
C321 2n2
C322 2n2
C323 2n2
C324 2n2
C325 2n2
C326 2n2
C327 2n2
C328 2n2
R323 1K
R324 1K
R325 1K
R326 1K
R327 1K
R328 1K
R329 1K
R330 1K
Data 7
Data 6
Data 5
Data 4
Data 3
Data 2
Data 1
Data 0
IC 301
8341211*
GND
Vcc
Mute
Signaldetector
Powerfailure
5V
L301 10µH
5V(A)
R303 1K
R304 470
R305 470
C305 2n2
C306 100n
C307 2n2
C308 47n
C309 2n2
R301 120K
TR302 BC848B
TR301 BC858B
R302 4K7
TR303 BC858B
R309 8K2
R310 2K2
P305-4
P305-11
P305-5
12V
220VAC
8TF1
D801
D802
C801 470µ
R104 100
D103
RL101
R122 1K
R119 5K6
R120 4K7
R121 3K3
TR102 BC 557B
R101 0R47
P104-8
P104-9
P305-12
P305-13
C301 100n
D301
C302 100n
IC 302 LM2940-T5
C303 470µ
5V
C304 47µ
12V
P104-5
P104-6
P104-7
R102 10
R103 10
C103 100n
D101
C101 100n
C102 100n
C104 220µ
C105 220µ
IC101 7815
IC102 7915
C106 47µ
C107 47µ
15V
-15V
P104-1
P104-4
P104-3
F101 T4A
F102 T4A
C114 100n
C112 47n
D102
C113 47n
C110 3300µ
C111 3300µ
45V
-45V
R242 4K7
R243 4K7
R239 19K1
R240 6K49
R241 2K15
IC203
R244 4K7
R245 4K7
R246 1M
R247 1M
R248 1M
R249 1M
R250 1M
R254 150K
R255 150K
R256 150K
TR201 BC858B
TR202 BC858B
TR203 BC 858B
TR205 BC848B
TR206 BC848B
TR207 BC848B


10
8330243
P301-1
P301-2
P302-6
R901 330
D901
R343 330
R344 820
P302-2
TR312 BC547B
TR313 BC547B
TR314 BC547B
TR310 BC848C
TR311 BC848C
R346 22K
R347 2R2
R348 2R2
R349 2R2
R350 4R7
9
C334 2n2
C329 560p
C331 560p
C332 6 MHz 47p
C333 47p
X 301
R335 1K
R336 1K
C335 2n2
C336 2,2µ
R337 1K
R338 1K
C341 2n2
D302
R342 33K
R345 33K
TR309 BC858C
R340 1K
R341 120K
R339 10K
R353 10K
C340 2n2
TR308 BC848B
R903
P302-1
LDR
R902 10K
S901
P302-4
P302-5
P302-3
S901
VIDEO A-B
AUDIO B-C
OFF B-D
3
9
IC 301
8341211
Data 5
Data 4
Data 3
Data 2
Data 1
Data 0
RS
E
Test
osc.
Bachlight/ St. by
Reset INT
Audio / Video SS
EA
Mute
Signaldetector
Powerfailure
Power on/off
PL System on
PL Mute
Bassequal. a
Bassequal. b
Bassequal. c
Bassequal. d
Data
St. by
R303 1K
R304 470
R305 470
R306 680K
R311 470
R312 470
R313 1K
R314 1K
R315 1K
R316 1K
R317 470
R318 470
R320 470
R319 470
C320 2n2
C319 2n2
C307 2n2
C308 47n
C309 2n2
C310 2n2
C311 2n2
C312 2n2
C316 2n2
C315 2n2
C314 2n2
C313 2n2
C317 2n2
C318 2n2
TR302 BC848B
TR303 BC858B
TR304 BC847B
TR305 BC848B
TR306 BC848B
TR307 BC848B
R301 120K
R302 4K7
R309 8K2
R310 2K2
R321 330K
R322 330K
P305-3
P305-17
P305-14
P305-15
R115 1K
R116 2K2
R117 120K
R118 22K
15V
TR101 BC557B
D110
R111 100K
R110 22K
R114 470K
D111
R113 100K
D112 6v8
R112 22K
1
P305-11
P305-5
P305-2
P305-10
P305-1
P305-6
P305-7
P305-8
P305-9
P305-16
P305-18
20
21
10
11
12
13
9
8
14
4
7
6
5
-15V
C235 10n
IC 204A 1/2
D201
R266 10K
C237 10n
R267 680K
R268 1M
C238 10n
TR 210 BC848B
P206-8
R263 1M
C232 47p
R265 1M
C234 47p
C231 47n
R264 4K7
C233 47n
P206-1
P206-10
P407-3
P407-2
R401 1K2
C401 470p
C402 22µ
R424 1K2
R402 56K
R425 2K2
IC 401
STK 4042V
8350059
C408 100µ
R408 100
C409 10µ
C410 100p
R407 1K
C411 100p
C406 1n
C407 100p
C412 1µ
R405 100
C404 100µ
C405 10µ
R404 56K
R403 560
C403 100µ
R427 1K5
R406 10K
45V
P408-1
R419 100
C415 4µ7
R418 22K
TR403 BC557B
R421 22K
TR404 BC547B
P407-1
P407-4
R422 1K
7
R701 NTC
D401
D402
C414 330n
R416 120K
R417 120K
TR401 BF422
TR402 BF422
D403
R426 100
RL401
P407-5
R412 2K2
R413 2K2
R414 2K2
R415 2K2
L401 3µH
R410 4R7
R409 0R22
C416 220n
C417 220n
R411 4R7
C420 10n
R254 150K
R255 150K
R256 150K
R257 150K
TR204 BC858B
TR203 BC 858B
TR202 BC858B
TR201 BC858B
R252 1M
R253 1M
R250 1M
R251 1M
R249 1M
R248 1M
R247 1M
TR208 BC848B
TR207 BC848B
TR206 BC848B
TR205 BC848B
15 V (4 con)
-15V (4 con)
d
c
b
a
P206-9
P206-11
P206-3
P206-4
P206-5
P206-6
P206-2
P408-3
P408-4
-45V
32
31
14
23
24
13
12
11
10
4